IN THE CLAIMS:

- 1 1. (Currently Amended) A method for producing a plasma display panel that has a 2 front substrate and a back substrate disposed to face each other, the method comprising: 3 a pre-baking phosphor layer forming step for forming a pre-baking phosphor layer 4 containing a phosphor and an organic binder, on at least one of the surfaces of the front substrate 5 and the back substrate that are to face each other; 6 a sealing material applying step for applying a sealing material that softens with 7 heat, to the peripheral region of at least one of the surfaces of the front and back substrates that 8 are to face each other; 9 a stacking step for, after the pre-baking phosphor layer forming step and the 10 sealing material applying step, disposing the front and back substrates to face each other in a 11 stack; and a baking step for heating the front and back substrates to burn out the organic 12 13 binder while supplying a dry gas containing oxygen to an internal space that is formed between 14 the front and back substrates, wherein the organic binder is burned out and the sealing material is softened to enable bonding of the front and back substrates in a simultaneous operation of raising 15 16 and lowering temperature.
 - 1 2. (Original) The method of Claim 1, wherein
 - the sealing material is a glass frit that softens at a temperature lower than the highest temperature achieved in the baking step.
 - 1 3. (Original) The method of Claim 2, wherein
 - 2 the glass frit has a softening point of 400 °C or higher.

1	4.	(Original) The method of Claim 2 further comprising a preliminary baking step
2	between the se	ealing material applying step and the stacking step, wherein
3		in the preliminary baking step, the glass frit is heated to a predetermined
4	temperature to	be preliminarily baked.
1	5.	(Original) The method of Claim 1, wherein
2		the sealing material is a glass frit that is substantially composed of a crystalline
3	glass.	
1	6.	(Original) The method of Claim 5, wherein
2		in the baking step, the heating is suspended for a predetermined time period after
3	a temperature	of the front and back substrates reaches to a predetermined temperature, then the
4	heating is resu	amed to burn out the organic binder.
1	7.	(Original) The method of Claim 1, wherein
2		at least one of the front and back substrates has thickness of 2 mm or less.
1	8.	(Original) The method of Claim 1, wherein
2		a flow rate of the dry gas supplied to the internal space is 1 CCM per 1 cm ³ of the
3	internal space	
1	9.	(Original) The method of Claim 8, wherein
2		a flow rate of oxygen contained in the dry gas supplied to the internal space is 0.5
3	CCM per 1 cr	m ³ of the internal space.

l	10.	(Original) The method of Claim I, wherein
2		in the baking step, the front and back substrates are heated while being secured by
3	pressure appli	ed by a plurality of pressing units attached to the front and back substrates.
1	11.	(Original) The method of Claim 10, wherein
2		the plurality of pressing units apply pressure to the peripheral region of the front
3	and back subs	strates.
1 ·	12.	(Original) The method of Claim 11, wherein
2		the plurality of pressing units apply pressure to the front and back substrates
3	inward of the	sealing material, excluding the central region of the front and back substrates.
1	13.	(Original) The method of Claim 1 further comprising
2		an exhausting step for exhausting gases from the internal space, wherein
3		the exhausting step is started before the front and back substrates cool off to
4	ambient temp	erature after the baking step.
1	14.	(Original) The method of Claim 13, wherein
2		the exhausting step is completed before the front and back substrates cool off to
3	ambient temp	erature after the baking step.
1	15.	(Original) The method of Claim 14, wherein
2		in the exhausting step, gases are exhausted while the internal space is maintained
3	at a constant t	temperature.

1	16. (Currently Amended) A method for producing a plasma display panel that has a
2	front substrate and a back substrate disposed to face each other, the method comprising:
3	a pre-baking phosphor layer forming step for forming a pre-baking phosphor layer
4	containing a phosphor and an organic binder, on at least one of surfaces of the front substrate and
5	the back substrate that are to face each other;
6	a sealing material applying step for applying a sealing material that softens with
7	heat, to the peripheral region of one of the surfaces of the front and back substrates that are to
8	face each other;
9	a baking step for, after the pre-baking phosphor layer forming step and the sealing
10	material applying step, burning out the organic binder by heating the front and back substrates in
11	a furnace while the surfaces of the front and back substrates are positioned to face each other and
12	are separated from each other to provide enough space to allow gases to escape, from an internal
13	space between the faces of substrates, to outside of the substrates; and
14	a bonding step for disposing the front and back substrates to contact the sealing
15	material for bonding the front and back substrates by keeping the front and back substrates at a
16	temperature higher than the softening point of the sealing material, wherein the organic binder is
17	burned out and the sealing material is softened to enable bonding of the front and back substrates
18	in a simultaneous operation of raising and lowering temperature.
1	17. (Original) The method of Claim 16, wherein

other, a dry gas containing oxygen is supplied to an internal space formed between the front and

in the bonding step, after the front and back substrates are disposed to face each

back substrates.

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1	18.	(Original) The method of Claim 16, wherein
2		the sealing material is a glass frit.
1	19.	(Original) The method of Claim 18, wherein
2		the glass frit has a softening point of 400 °C or higher.
1	20.	(Original) The method of Claim 19, wherein
2		in the bonding step, the front and back substrates are heated to a temperature in a
3	range of 400 °	°C to 520 °C.
1	21.	(Original) The method of Claim 16, wherein
2		in the baking step, the front and back substrates are heated in an atmosphere of a
3	dry gas.	
1	22.	(Original) The method of Claim 21, wherein
2		in the baking step, the front and back substrates are heated in an atmosphere of a
3	circulated dry	gas.
1	23.	(Original) The method of Claim 21, wherein
2		the dry gas used in the baking step contains oxygen.
1	24.	(Original) The method of Claim 16, wherein
2		in the baking step, gases released from the front and back substrates as the
3	substrates are	heated are removed forcibly.

i	25.	(Original) The method of Claim 16 further comprising a disposing step and a
2	separating ste	ep in succession between the sealing material applying step and the baking step,
3	wherein	
4		in the disposing step, the front and back substrates are disposed to face each other,
5	then	
6		in the separating step, the front and back substrates are relatively moved apart
7	along a prede	termined path, and
8	·	in the bonding step, the front and back substrates are relatively moved together
9	along the pre	edetermined path so that the front and back substrates are disposed to face each
10	other.	
1	26.	(Original) The method of Claim 25, wherein
2		in the separating step and the bonding step, the front and back substrates are
3	moved parall	el to each other.
1	27.	(Original) The method of Claim 16, wherein
2		positioning markers are formed on surfaces of the front and back substrates before
3	the baking st	ep, and
4		in the bonding step, the front and back substrates are positioned using the
5	positioning n	narkers so as to face each other.
1	28.	(Original) The method of Claim 16 further comprising
2		an exhausting step for exhausting gases from the internal space, wherein

3		the exhausting step is started before the front and back substrates cool off to
4	ambient temp	erature after the bonding step.
1	29.	(Original) The method of Claim 28, wherein
2		the exhausting step is completed before the front and back substrates cool off to
3	ambient temp	erature after the baking step.
1	30.	(Original) The method of Claim 29, wherein
2		in the exhausting step, gases are exhausted while the internal space is maintained
3	at a constant t	temperature.
1	31.	(Original) A plasma display panel production apparatus for use in the baking step
2	and the bondi	ng step in the method of Claim 16, comprising:
3		a heating furnace for housing and heating the front and back substrates disposed
4	to face each o	other; and
5		a dry gas supplying mechanism for supplying a dry gas to an internal space
6	formed between	een the front and back substrates.
1	32.	(Original) The plasma display panel production apparatus of Claim 31 further
2	comprising	
3		an exhausting mechanism for exhausting gases from the internal space.
1	33.	(Previously Presented) The method of Claim 1, wherein
2		BaMgA1 ₁₀ O ₁₇ :Eu is used as a phosphor constituting a blue phosphor layer.
1	34-39.	(Cancelled)

i	40. (New) A method for producing a plasma display panel that has a nont substrate
2	and a back substrate disposed to face each other, the method comprising:
3	a pre-baking phosphor layer forming step for forming a pre-baking phosphor layer
4	containing a phosphor and an organic binder, on at least one of surfaces of the front substrate and
5	the back substrate that are to face each other;
6	a sealing material applying step for applying a sealing material that softens with
7	heat, to the peripheral region of one of the surfaces of the front and back substrates that are to
8	face each other;
9	a disposing step wherein the front and back substrates are disposed to face each
10	other;
11	a separating step wherein the front and back substrates are relatively moved apart
12	along a predetermined path;
13	a baking step for, after the pre-baking phosphor layer forming step and the sealing
14	material applying step, burning out the organic binder by heating the front and back substrates in
15	a furnace while the surfaces of the front and back substrates are positioned to face each other and
16	are separated from each other to provide enough space to allow gases to escape, from an internal
17	space between the faces of substrates, to outside of the substrates; and
18	a bonding step for disposing the front and back substrates to contact the sealing
19	material for bonding the front and back substrates by relatively moving the front and back
20	substrates together along the predetermined path so that the front and back substrates are
21	disposed to face each other while keeping the front and back substrates at a temperature higher
22	than the softening point of the sealing material.

- 1 41. (New) The method of Claim 40, wherein
- 2 in the separating step and the bonding step, the front and back substrates are
- 3 moved parallel to each other.